Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
Environmental Monitors on Lobster Traps Database

1.2. Summary description of the data:
The eMOLT project is a non-profit collaboration of industry, science, and academics devoted to monitoring of the physical environment of the Gulf of Maine and the Southern New England shelf. In a series of phases funded by the Northeast Consortium (2001-2008), low-cost strategies have been developed to monitor the environment. While the primary variable is bottom temperature, salinity and current velocity have been measured as well with the help of nearly 100 lobstermen dispersed along the entire New England coast. We hope to extend our existing multi-year time series (as well as our monitoring capabilities), continue integration with the Northeast Regional Association for Coastal Ocean Observing Systems (NERACOOS), and contribute to whatever operational systems are developed for our region in the future.

1.3. Is this a one-time data collection, or an ongoing series of measurements?
Ongoing series of measurements

1.4. Actual or planned temporal coverage of the data:
2001 to Present

1.5. Actual or planned geographic coverage of the data:
W: -75, E: -65, N: 45, S: 35
Approximately 70 fixed locations with nearly a decade of hourly time series

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Table (digital)

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)
Instrument: VEMCO Minilog-II Temperature Recorder

Platform: lobster traps
Physical Collection / Fishing Gear: not applicable

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
James Manning

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
Northeast Fisheries Science Center

2.4. E-mail address:
James.Manning@noaa.gov

2.5. Phone number:
508-495-4727

3. Responsible Party for Data Management
Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:
James Manning

3.2. Title:
Data Steward

4. Resources
Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?
Yes

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):
Unknown

5. Data Lineage and Quality
NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Lineage Statement:
http://www.nefsc.noaa.gov/epd/ocean/MainPage/lob/mission.html

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

Instrument is mailed to the scientist and the data is downloaded to disk within a few days. Data is run through a series of Python programs to conduct range and delta checks and visual graphics. Spikes of more than X standard deviations are removed where X depends on the geographic location and season. Hardcopy plots are mailed to each participant after the annual download and archiving.

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

Yes

6.1.1. If metadata are non-existent or non-compliant, please explain:

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

https://inport.nmfs.noaa.gov/inport/item/25149

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NMFS Data Documentation Procedural Directive: https://inport.nmfs.noaa.gov/inport/downloads/data-documentation-procedural-directive.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable

information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

Yes

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:

Northeast Fisheries Science Center

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:

http://comet.nefsc.noaa.gov/erddap/tabledap/eMOLT.html

7.3. Data access methods or services offered:

Served via ERDDAP:

http://comet.nefsc.noaa.gov/erddap/tabledap/eMOLT.html,

the data can be queried according to site code, time, location, and depth.

Alternatively, the data can be accessed directly into programming languages such as MATLAB or PYTHON and example scripts are provided.

7.4. Approximate delay between data collection and dissemination:

There is approximately a week between when the fishermen hauls his gear w/the sensor and when the data arrives at my desk, gets processed, and loaded each year.

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To

Be Determined, Unable to Archive, or No Archiving Intended)

Other

8.1.1. If World Data Center or Other, specify:

ERDDAP with the data actually housed on NEFSC disks

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):

Northeast Fisheries Science Center - Woods Hole, MA

8.3. Approximate delay between data collection and submission to an archive facility:

One week, same as above, although we are currently working on a system to make eMOLT data collection in realtime where it would be telemetered and archived within minutes of the fisherman hauling his gear.

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

Archival of source data preserving unaltered collected data, Scheduled backups, Remote storage backups, Password protection

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.